

## Supplementary Online Content

Yau AYY, Manuel C, Hussain SF, Protsenko DE, Wong BJJ. In vivo needle-based electromechanical reshaping of pinnae: New Zealand white rabbit model. *JAMA Facial Plast Surg*. Published online May 22, 2014. doi:10.1001/jamafacial.2014.85

**eFigure 1.** In Vivo Electromechanical Reshaping (EMR) of Intact Ears in a New Zealand White Rabbit Model

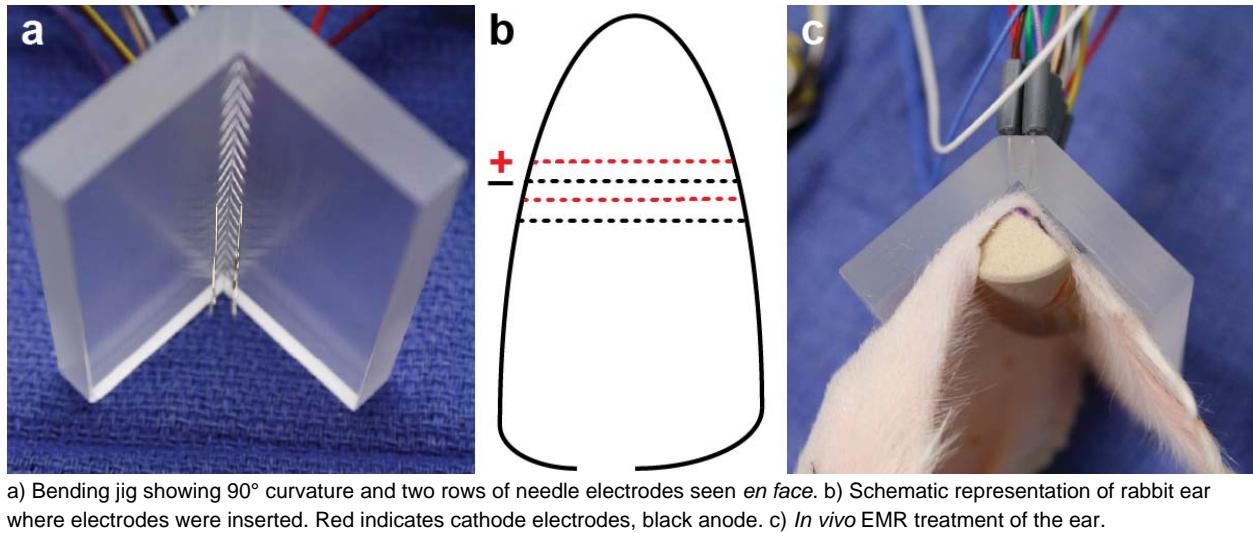
**eFigure 2.** Electromechanically Reshaped Ears

**eFigure 3.** Relationships of Charge Transferred and Cartilage Thickness to Bend Angle

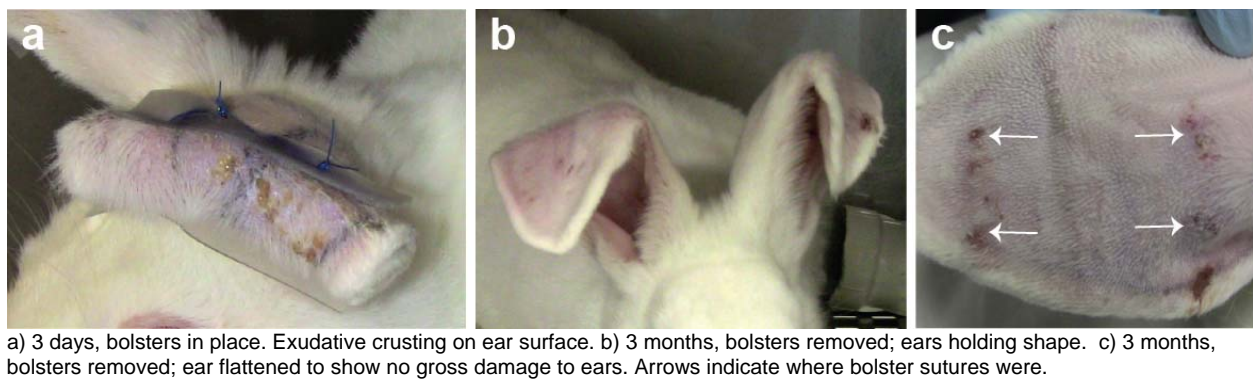
**eFigure 4.** Histologic Preservation of the Gross Ear Sample Showing Preserved Shape Change After Treatment (5 V for 4 Minutes)

This supplementary material has been provided by the authors to give readers additional information about their work.

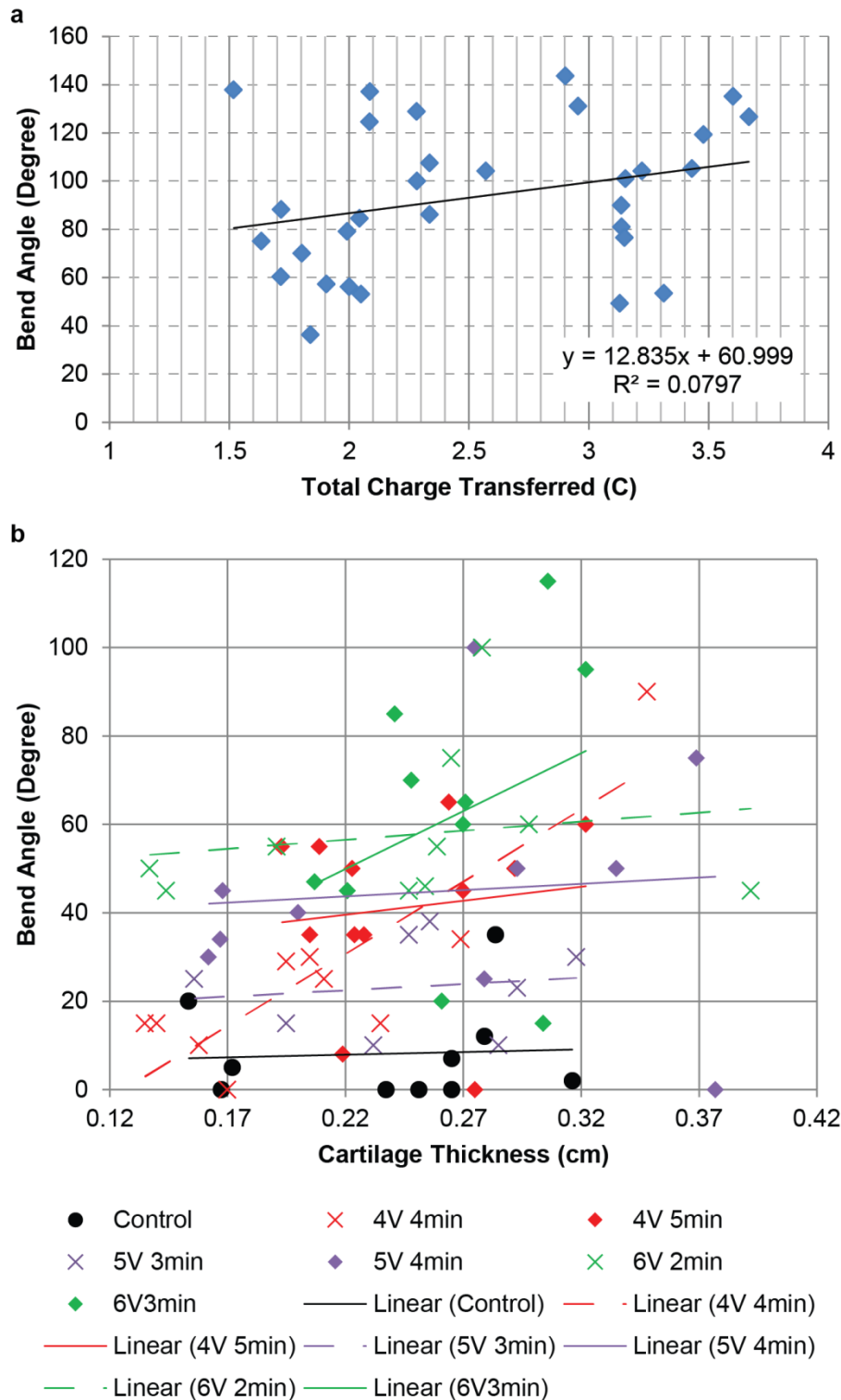
**eFigure 1. *In vivo* electromechanical reshaping (EMR) of intact ears in a New Zealand white rabbit model.**



**eFigure 2. Electromechanical reshaped ears.**



**eFigure 3: Relationships of charge transferred and cartilage thickness to bend angle.**



a) Bend angle vs. total charge transferred with linear regression. b) Bend angle vs. cartilage thickness for each dosimetry and corresponding linear regression.  $R^2$  values for control, 4V 4min, 4V 5min, 5V 3min, 5V 4min, 6V 2min, 6V 3min are 0.0033, 0.7409, 0.016, 0.0195, 0.0075, 0.0307, 0.097, respectively.

**eFigure 4. Histological preservation of the gross ear sample showing preserved shape change after treatment (5V 4 minutes).**

